



50X6

# VACUUM RECTIFIER-DOUBLER

50X6

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathodes:

Voltage. . . . . 50 . . . . . ac or dc volts

Current. . . . . 0.150 . . . . . amp

### Mechanical:

Mounting Position. . . . . Any

Maximum Overall Length. . . . . 3-5/32"

Maximum Seated Length. . . . . 2-5/8"

Maximum Diameter. . . . . 1-3/16"

Bulb . . . . . T-9

Base . . . . . Lock-in 8-Pin

Basing Designation for BOTTOM VIEW. . . . . 7AJ

Pin 1-Heater

Pin 2-Cathode of

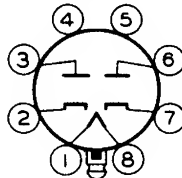
Unit No.2

Pin 3-Plate of

Unit No.2

Pin 4-No

Connection



Pin 5-No Connection

Pin 6-Plate of

Unit No.1

Pin 7-Cathode of

Unit No.1

Pin 8-Heater

Plug -Base Shell

## RECTIFIER OR DOUBLER

### Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE . . . . . 700 max. volts

PEAK PLATE CURRENT PER PLATE . . . . . 450 max. ma

DC OUTPUT CURRENT PER PLATE. . . . . 75 max. ma

### PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . 350 max. volts

Heater positive with respect to cathode. . . 350 max. volts

### Typical Operation as Half-Wave Rectifier with Capacitor-Input to Filter:<sup>0</sup>

AC Plate-Supply Voltage  
per Plate (RMS) . . . 117 150 235 volts

Filter-Input Capacitor . . . . . 16 16 16  $\mu$ f

Min. Total Effective Plate-Supply Impedance per Plate . . . .15 40 100 ohms

DC Output Current per Plate. . . . . 75 75 75 ma

### Typical Operation as Voltage Doubler:

Half-Wave Full-Wave

AC Plate-Supply Voltage  
per Plate (RMS) . . . 117 117 volts

Filter-Input Capacitor  
per Plate . . . 16 16  $\mu$ f

Min. Total Effective Plate-Supply Impedance per Plate . . 30 15 ohms

DC Output Current. . . . . 75 75 ma

<sup>0</sup> In half-wave rectifier service, the two units may be used separately or in parallel.

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TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA